



Malaria Prevention

Malaria Prevention Objectives

- ◆ Implement an effective unit level malaria prevention program
- ◆ Convince unit members to use DoD personal protective measures
- ◆ Understand why primary prevention of malaria is better than secondary prevention or treatment

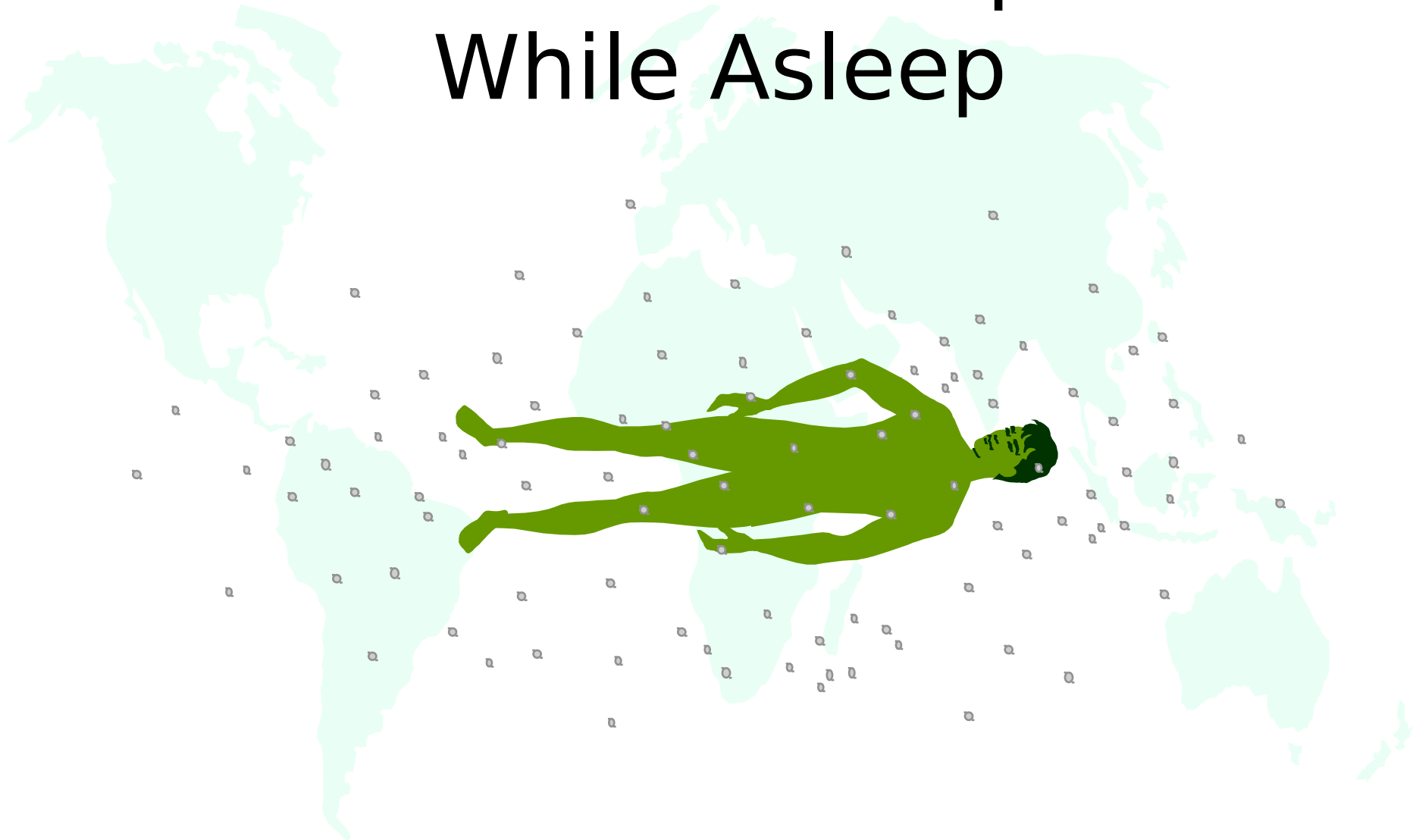
Malaria Prevention Overview

- ◆ Personal Protection
- ◆ Role of the Command
- ◆ Preparing for Deployment

Believe It

Tiny little mosquitoes
can put a unit
out of action

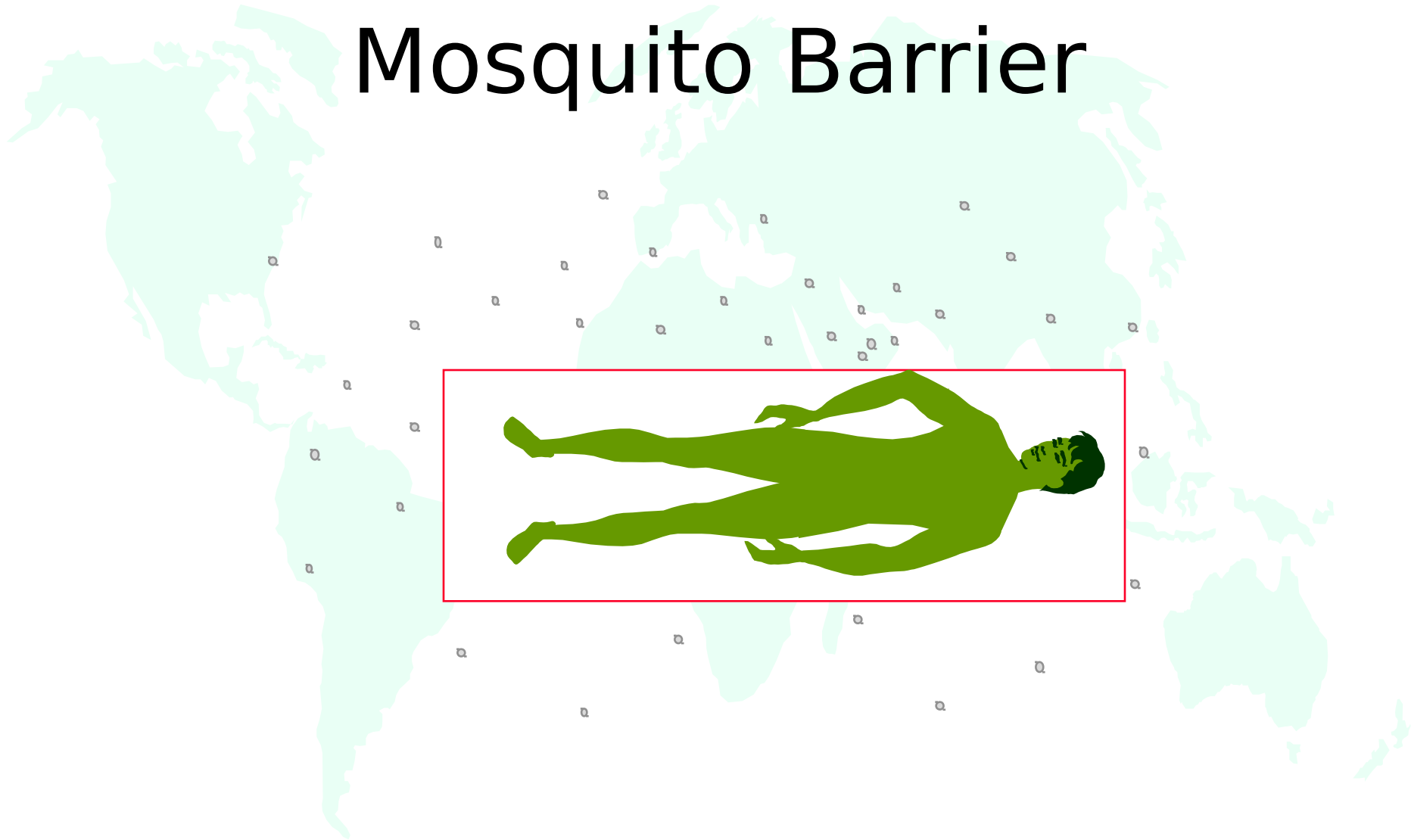
Vulnerable to Mosquitoes While Asleep



Protection from Night Biting Mosquitoes

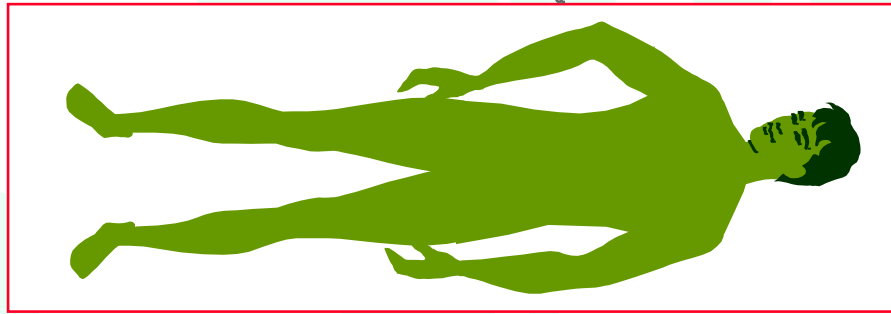


Bednet Provides Mosquito Barrier



Bednet Barrier

Mosquitoes
will bite
through net



Bednets stop most bites

DoD System of Protection

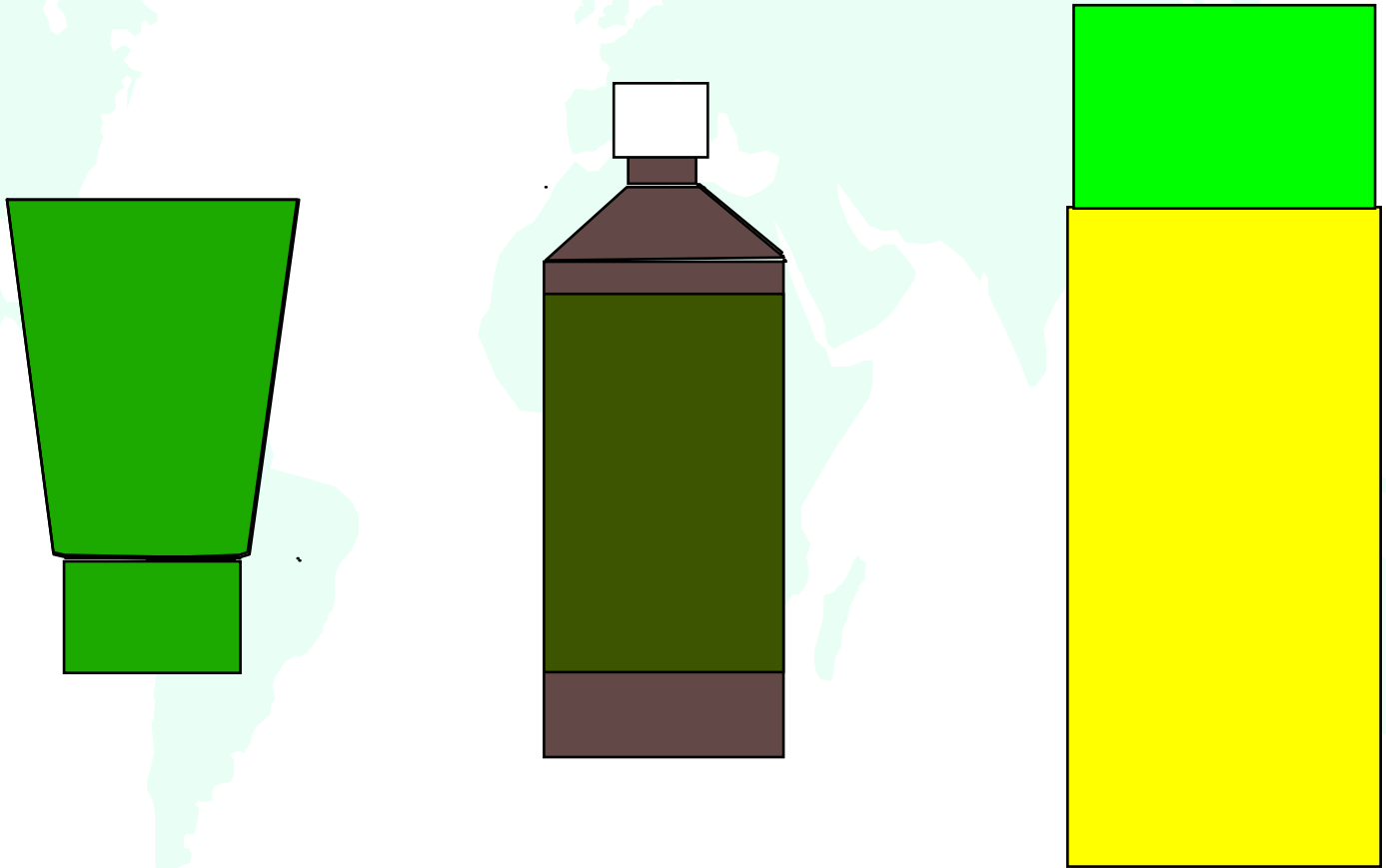
DEET
plus

- ◆ Repels from skin

Permethrin
equals
Complete
Primary
Protection

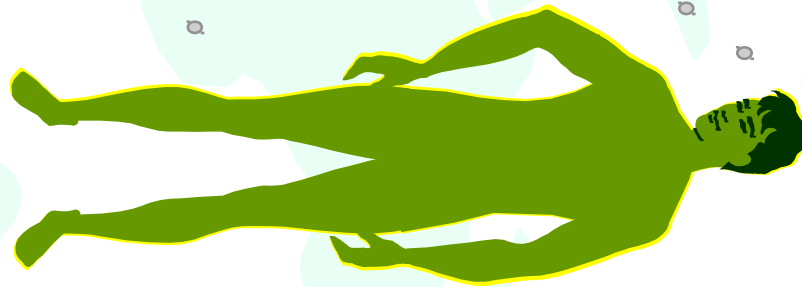
- ◆ Repels from uniform

DEET and PERMETHRIN

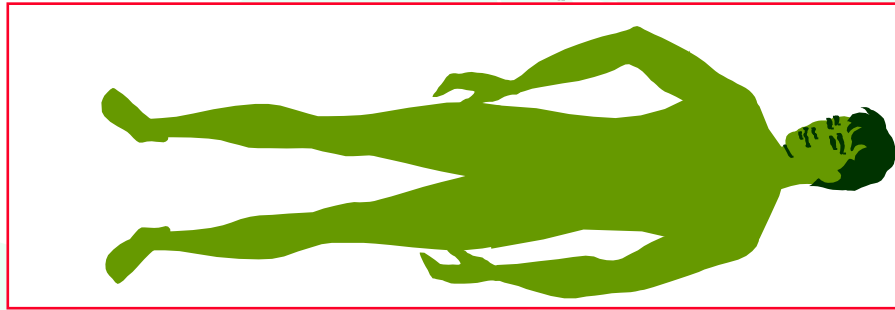


DEET Protection

- ◆ Apply **DEET** before bed

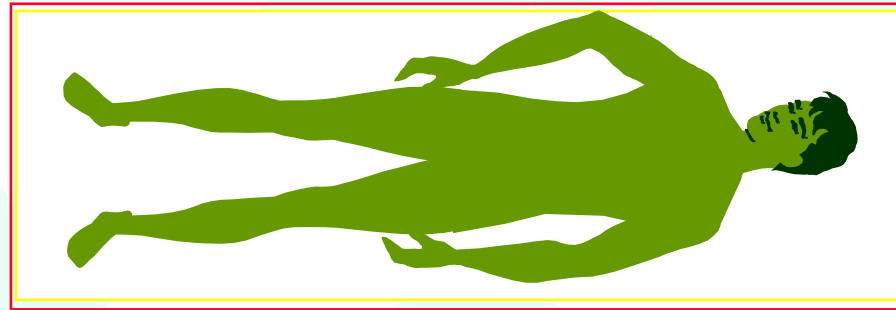


Even when using bednet



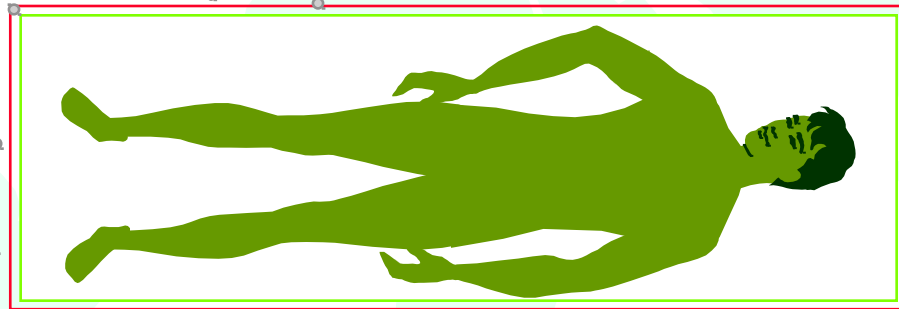
Apply **DEET** before bed

Permethrin Treatment of Bednet



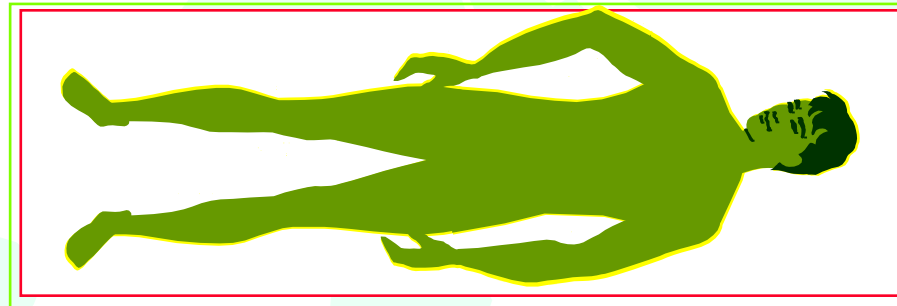
Mosquitoes repelled from net

For added protection



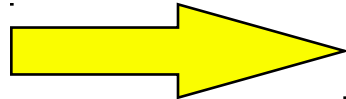
Wear uniform at night

Complete Mosquito Protection



DEET

- ◆ Uniform
- ◆ Bednet

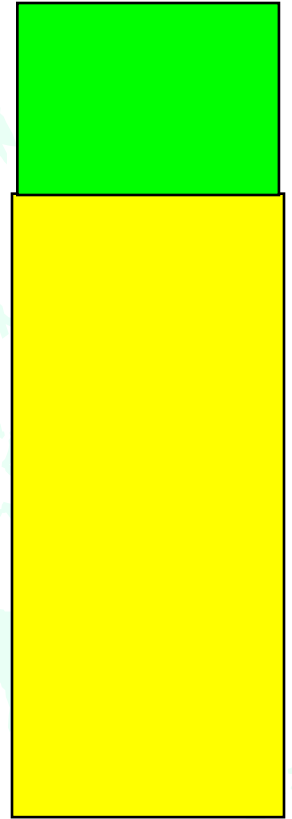


- ◆ Permethrin treated

Uniform treatment with permethrin



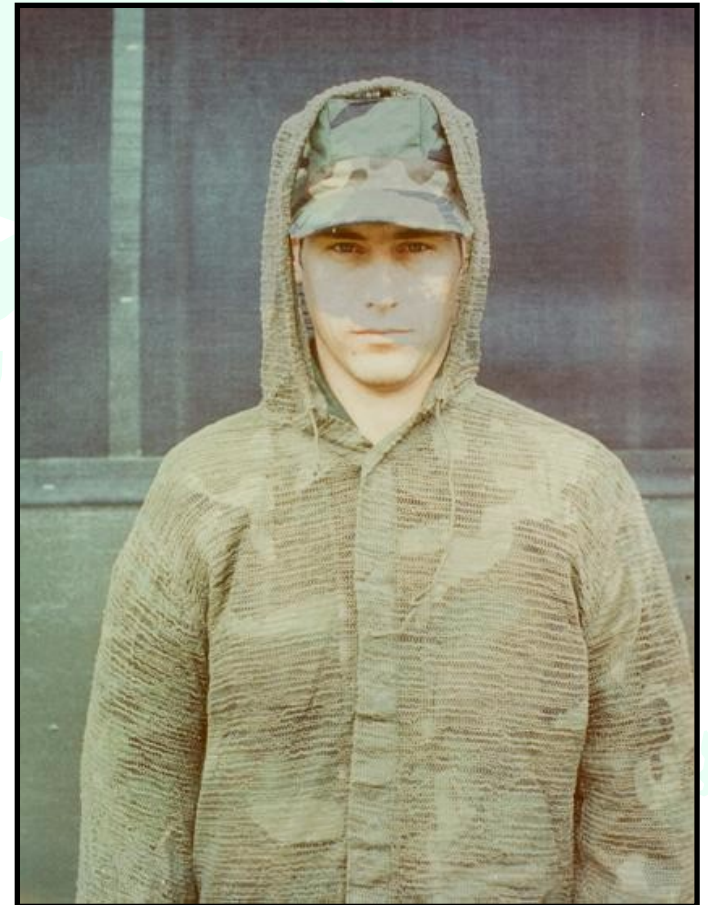
- factory (life of uniform)
- pressure sprayer (life of uniform)
- aerosol can (~ 6 washings)



Other Protective Gear

- ◆ DEET Jackets

- ◆ Headnets



Basic Universal Protective Measures

- ◆ Prevention of bites is a 24 hour concern
- ◆ Repellent use
- ◆ DEET, permethrin
- ◆ Skin coverage
- ◆ Proper uniform

These are the minimum required
measures in all risk situations

Preparing for Deployment

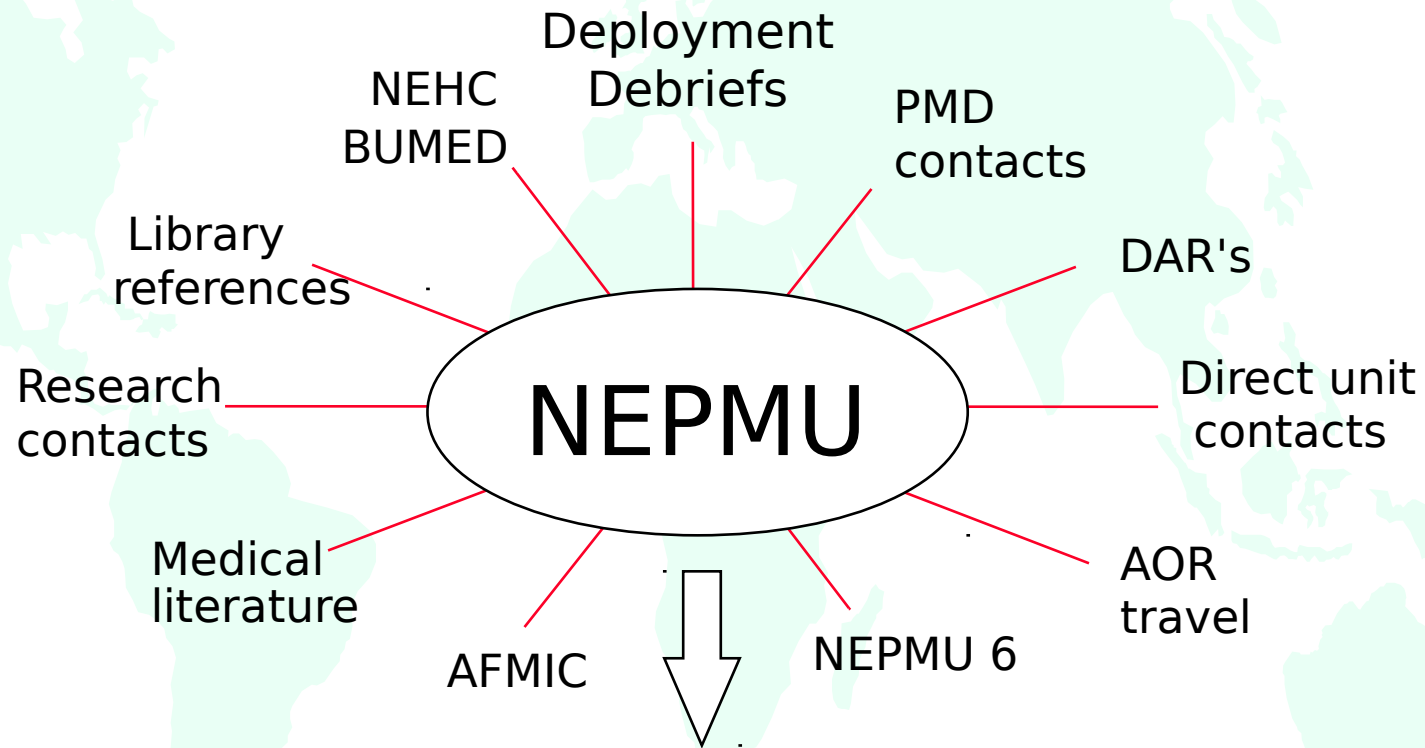


Prevention on Deployment

- ◆ Understand the Threat
- ◆ Devise Countermeasures
- ◆ Obtain Command Support
- ◆ Procure Supplies
- ◆ Train the Troops

Get it done!

Navy Preventive Medicine Resources



Information, Recommendations,
and Direct Assistance

Command Prevention Program

Without Command Enforcement

- ◆ Low transmission in area of deployment
- ◆ Low numbers of cases

Complacency towards prevention results

- ◆ High transmission in area of deployment
- ◆ High numbers of cases

Operational Readiness is Destroyed

Compliance is Low without Enforcement

History has shown it
again and again

Almost every DoD
malaria case failed to
comply with meds or
personal protection

Importance of Command Support

"More than half the battle against disease is fought not by doctors, but by regimental officers."

British Field Marshall

Sir William

Slim

Malaria Prevention



You can't prevent bites if:

- ◆ Personnel are not educated
- ◆ Personnel are not issued DEET
- ◆ Personnel do not cover skin at night
- ◆ Personnel have no bed nets
- ◆ Bednets aren't used because poles weren't issued
- ◆ Etc, etc, etc...

Malaria Prevention

- ◆ Preventing bites is **PRIMARY** means of prevention
- ◆ Chemoprophylaxis is a back-up measure

Get this idea across

Malaria Basics

- ◆ Transmitted by *Anopheles* mosquito
- ◆ Mosquitoes bite mostly at night
- ◆ Primarily found in rural areas
- ◆ Most urban areas are low-risk

Malaria is a rural, night-time exposure problem

Malaria Prevention is a Complete Command Program

Program consists of:

- ◆ Gaining command support
- ◆ Extensive pre-deployment training of troops and command structure
- ◆ Procurement of supplies
- ◆ Aggressive supervision and enforcement

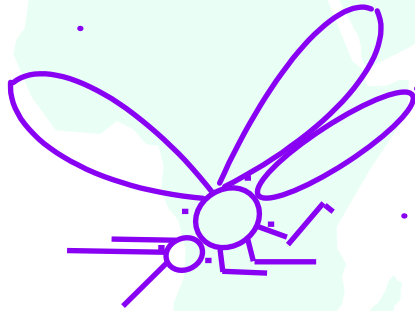
Vector-borne Threats

Developing
World

Vs

Developed
World

Insects
Carry
Serious
Diseases



Insects
Rarely
Carry
Disease

Don't let them bite